



**Solve each problem.**

**Answers**

**Ex)** At the movie theater the ratio of small popcorns sold to large popcorns sold was 9:2. For every \_\_\_\_\_ large popcorns sold there are \_\_\_\_\_ small popcorns sold.

Ex. 2 9

1) For every 2 hamburgers sold at the malt shop there are 4 hotdogs sold. What is the ratio of hotdogs sold to hamburgers sold?

1. \_\_\_\_\_

2) For every 7 girls on a softball team there are 6 boys. What is the ratio of boys to girls?

2. \_\_\_\_\_

3) The ratio of males to females birds in a bird cage was 6:4. For every \_\_\_\_\_ males there are \_\_\_\_\_ females.

3. \_\_\_\_\_

4) At the carnival the ratio of rides to games was 6:2. For every \_\_\_\_\_ rides there are \_\_\_\_\_ games.

4. \_\_\_\_\_

5) In the class election for every 5 Billy Nancy got, Billy got 7 Nancy. What is the ratio of votes for Nancy to votes for Billy?

5. \_\_\_\_\_

6) At the store for every 6 books sold there were 5 movies sold. What is the ratio of books sold to movies sold?

6. \_\_\_\_\_

7) For every 8 cars in a parking lot there are 5 trucks. What is the ratio of cars to trucks in the parking lot?

7. \_\_\_\_\_

8) For every 5 diet sodas a burger shop sold there were 7 regular sodas sold. What is the ratio of regular sodas sold to diet sodas sold?

8. \_\_\_\_\_

9) In a bag of candy for every 5 sugar pieces there are 6 chocolate pieces. What is the ratio of chocolate pieces to sugar pieces?

9. \_\_\_\_\_

10) For every 2 Wii games Olivia owned she had 6 PS3 games. What is her ratio of Wii games to PS3 games?

10. \_\_\_\_\_

11) In a neighborhood the ratio of old homes to new homes was 5:4. For every \_\_\_\_\_ new homes in the neighborhood there were \_\_\_\_\_ old homes.

11. \_\_\_\_\_

12) At the the thrift store the ratio of long sleeve shirts to short sleeve shirts was 6:4. For every \_\_\_\_\_ long sleeve shirts there were \_\_\_\_\_ short sleeve shirts.

12. \_\_\_\_\_



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**Answers**

- Ex. 2 9
1. 4:2
  2. 6:7
  3. 6 4
  4. 6 2
  5. 7:5
  6. 6:5
  7. 8:5
  8. 7:5
  9. 6:5
  10. 2:6
  11. 4 5
  12. 6 4



**Solve each problem.**

**Answers**

- 1) A scientist used 6 gallons of liquid for every 8 hours he works. He uses \_\_\_\_ of a gallon each hour he works.
- 2) A jogger travelled 14 kilometers in 2 days. What is the rate he travelled per day?
- 3) A toy company used 8 pints of plastic to make 4 action figures, which is a rate of \_\_\_\_ pints per figure.
- 4) A bouquet had 6 flowers and sold for \$30, which is a rate of \$\_\_\_\_ per flower.
- 5) A fair owner made 8 dollars when a group of 2 people entered, which is a rate of \_\_\_\_ dollar per person.
- 6) A carpenter installed 60 sheets of drywall in 10 minutes. What is the rate per minute?
- 7) A movie theater went through 6 pounds of popcorn every 8 hours. They went through \_\_\_\_ of a pound every hour.
- 8) An industrial machine is able to make 30 pens in 5 seconds. What is the rate made per second?
- 9) It took a pet store 7 weeks to sell 56 cats. What is the rate sold per week?
- 10) For every 9 miles Faye jogged, Will jogged 2 miles. If Faye jogged 1 mile, how far would Will have jogged?
- 11) During the lunch rush a fast food joint sold 10 sodas and earned \$50, which is a rate of \_\_\_\_ dollars per soda.
- 12) A baker used 5 bags of flour every 6 days. He used \_\_\_\_ of a bag each day.
- 13) Cody earned \$50 for mowing 5 lawns. What is the rate earned per lawn mowed?
- 14) A carpenter used 2 boxes of nails to build 4 bird houses. He used \_\_\_\_ of a box on each bird house.
- 15) A forklift operator moved 63 pallets in 9 hours. What is the rate moved per hour?

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_
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14. \_\_\_\_\_
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**Answers**

1.          $\frac{6}{8}$
2.         **7**
3.         **2**
4.         **5**
5.         **4**
6.         **6**
7.          $\frac{6}{8}$
8.         **6**
9.         **8**
10.          $\frac{2}{9}$
11.         **5**
12.          $\frac{5}{6}$
13.         **10**
14.          $\frac{2}{4}$
15.         **7**



Find the ratio and unit rate for each problem.

Answers

	Ratio	Rate	
Ex) 22 shirts for 154 dollars	<u>154:22</u>	<u>7</u> dollars per shirt	Ex. <u>154:22</u> <u>7</u>
1) 4 game controllers had 48 buttons	_____	_____ buttons per controller	1. _____
2) 4 classrooms with 96 students	_____	_____ students per class	2. _____
3) 8 students earned 72 dollars total	_____	_____ dollars per student	3. _____
4) 10 cell phone covers for 70 dollars	_____	_____ dollars per cover	4. _____
5) 8 pies eaten in 2 minutes	_____	_____ pies per minute	5. _____
6) 27 people bought 459 tickets	_____	_____ tickets per person	6. _____
7) 200 centimeters of snow in 10 hours	_____	_____ centimeters per hour	7. _____
8) 4 tanks with 292 fish	_____	_____ fish per tank	8. _____
9) 12 pints of juice in 3 containers	_____	_____ pints per container	9. _____
10) 6 chocolate bars for \$18	_____	_____ dollars per bar	10. _____
11) 8 hours to drive 448 miles	_____	_____ miles per hour	11. _____
12) 20 copies in 4 minutes	_____	_____ copies per minute	12. _____
13) 171 dollars for mowing 9 lawns	_____	_____ dollars per lawn	13. _____
14) 7 minutes to type 805 words	_____	_____ words per minute	14. _____
15) 49 brownies took 147 cups of fudge	_____	_____ cups per brownie	15. _____



Find the ratio and unit rate for each problem.

	Ratio	Rate
Ex) 22 shirts for 154 dollars	<u>154:22</u>	<u>7</u> dollars per shirt
1) 4 game controllers had 48 buttons	<u>48:4</u>	<u>12</u> buttons per controller
2) 4 classrooms with 96 students	<u>96:4</u>	<u>24</u> students per class
3) 8 students earned 72 dollars total	<u>72:8</u>	<u>9</u> dollars per student
4) 10 cell phone covers for 70 dollars	<u>70:10</u>	<u>7</u> dollars per cover
5) 8 pies eaten in 2 minutes	<u>8:2</u>	<u>4</u> pies per minute
6) 27 people bought 459 tickets	<u>459:27</u>	<u>17</u> tickets per person
7) 200 centimeters of snow in 10 hours	<u>200:10</u>	<u>20</u> centimeters per hour
8) 4 tanks with 292 fish	<u>292:4</u>	<u>73</u> fish per tank
9) 12 pints of juice in 3 containers	<u>12:3</u>	<u>4</u> pints per container
10) 6 chocolate bars for \$18	<u>18:6</u>	<u>3</u> dollars per bar
11) 8 hours to drive 448 miles	<u>448:8</u>	<u>56</u> miles per hour
12) 20 copies in 4 minutes	<u>20:4</u>	<u>5</u> copies per minute
13) 171 dollars for mowing 9 lawns	<u>171:9</u>	<u>19</u> dollars per lawn
14) 7 minutes to type 805 words	<u>805:7</u>	<u>115</u> words per minute
15) 49 brownies took 147 cups of fudge	<u>147:49</u>	<u>3</u> cups per brownie

Answers

Ex.	<u>154:22</u>	<u>7</u>
1.	<u>48:4</u>	<u>12</u>
2.	<u>96:4</u>	<u>24</u>
3.	<u>72:8</u>	<u>9</u>
4.	<u>70:10</u>	<u>7</u>
5.	<u>8:2</u>	<u>4</u>
6.	<u>459:27</u>	<u>17</u>
7.	<u>200:10</u>	<u>20</u>
8.	<u>292:4</u>	<u>73</u>
9.	<u>12:3</u>	<u>4</u>
10.	<u>18:6</u>	<u>3</u>
11.	<u>448:8</u>	<u>56</u>
12.	<u>20:4</u>	<u>5</u>
13.	<u>171:9</u>	<u>19</u>
14.	<u>805:7</u>	<u>115</u>
15.	<u>147:49</u>	<u>3</u>